	Application No.	Applicant(s)	
	10/790,069	LIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Michael C. Henry	1623	<u> </u>
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic GHTS. This application is subj	s application. If not include ation will be mailed in due	led course. THIS
1. This communication is responsive to <u>amendment filed 12/1</u>	<u>14/06</u> .		
2. The allowed claim(s) is/are 1-7, 19-24. These claims are re	enumbered 1-13, respectively.		
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application N	o. <u>. </u>	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") musi	t be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		,	
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in t	he Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			e back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT'S			Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9.	nary (PTO-413), I Date	7

Application/Control Number: 10/790,069

Art Unit: 1623

EXAMINER'S AMENDMENT/REASONS FOR ALLOWANCE

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joe McKinney Muncy (Reg # 32,334) on 03/30/07.

The application has been amended as follows:

In claim 1, line 5, the word "initial" has been deleted.

In claim 1, lines 7-8, the phrase "acarbose-containing fermentation broth" has been deleted and the phrase ---impure acarbose solution--- has been inserted therefor.

In claim 2, line 3, the phrase "to be" has been deleted and the word ---as--- has been inserted therefor.

In claim 19, line 9, the word "acarbose" has been deleted and the term
---acarbose-containing--- has been inserted therefor.

In claim 19, line 11, the word "be" has been deleted.

In claim 19, line 12, the word "by" has been deleted and the word ---using--- has been inserted therefor.

In claim 20, line 1, the number "20" has been deleted and the number --- 19--- has been inserted therefor.

In claim 21, line 3, the first word "volume" has been deleted.

Application/Control Number: 10/790,069

Art Unit: 1623

In claim 24, line 2, the word ---to--- has been inserted between the word "up" and the term "95%".

The following is an examiner's statement of reasons for allowance: The examiner has found claims 1-7 and 19-24 to be unobvious over the prior art of record and therefore to be allowable over the prior art of record. The present invention relates to a purification process for manufacturing a high pure acarbose from an acarbose-containing fermentation broth, comprising the steps of: using alcohol for precipitation of a concentrate from the fermentation broth; mixing alcohol with the concentrate to form a sediment; dissolving the sediment using distilled water to form an impure acarbose solution; using a strongly cation exchange chromatography and an immobilized enzyme affinity chromatography for purification of the impure acarbose solution. The relevant prior art document (US 6,649,755 B1) discloses a method of producing pure acarbose. However, the method of the present invention is different and unobvious over that disclosed in the prior art document. For example, the prior art does not teach the alcohol precipitation from a fermentation broth, mixing the alcohol with the concentrate to form a sediment, dissolving the sediment in water to form an impure acarbose solution. In addition, it is not obvious to perform the said steps comprising the use of the alcohol on said fermentation broth.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Henry whose telephone number is 571-272-0652. The examiner can normally be reached on 8.30am-5pm; Mon-Fri. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be

Art Unit: 1623

reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael	C	Henry
IVIIOIIGOI	\sim	110111 9

Shaojia Anna Jiang, Ph.D. Supervisory Patent Examiner Art Unit 1623

March 30, 2007.